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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2007; month=12; day=13; hr=9; min=25; sec=24; ms=252; ]

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Application No: 10559406 Version No: 1.0

Input Set:

Output Set:

Started: 2007-11-21 08:28:40.308  
 Finished: 2007-11-21 08:28:42.769  
 Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 461 ms  
 Total Warnings: 15  
 Total Errors: 5  
 No. of SeqIDs Defined: 15  
 Actual SeqID Count: 15

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
E 323	Invalid/missing amino acid numbering SEQID (11) POS (37)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (11)
E 323	Invalid/missing amino acid numbering SEQID (11) POS (65)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
E 323	Invalid/missing amino acid numbering SEQID (15)at Protein (11)



# Sequence Listing

<110> Universitaet Leipzig

<120> Method and Means for the Determination of Defined States or Modifications in the Mucus of the Uterus or in the Epithelium of Other Organs

<130> 401P07PCT-US

<140> 10559406

<141> 2007-11-21

<150> PCT/DE04/01210

<151> 2004-06-04

<150> DE10325639.3

<151> 2003-06-06

<150> DE10325638.5

<151> 2003-06-06

<160> 15

<210> 1

<211> 15

<212> PRT

<213> artificial

<220>

<223> Epitope e-beta-9 (e-beta-hCG)

<400> 1

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<211> 15

<212> PRT

<213> artificial

<220>

<223> Epitope beta-9 (t?hCG)

<400> 2

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<211> 15

<212> PRT

<213> artificial

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<223> Epitope e-beta-1 (e-beta-hCG)

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Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr  
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<210> 4

<211> 15

<212> PRT

<213> artificial

<220>

<223> Epitope beta-1 (t-beta-hCG)

<400> 4

Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr  
1 5 10 15

<210> 5

<211> 861

<212> DNA

<213> human

<220>

<223> beta-hCG beta-7 cDNA-Sequenz

<400> 5

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actgagtctc agaggtcact tcaccgtggg ctccgcctca tccttggcgc tagaccactg 180  
aggggagagg actgggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240  
tctcgccccc cgaagggtta gtgtccagct cactccagca tcctacaacc tctgtgtggc 300  
cttgacgccc ccacaaaccc gaggtataaa gccaggtaaa ccaggcaggg gacgcaccaa 360  
ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420  
catccaagga gatgcttcgg ccacggtgcc gcccacataa tgccaccctg gctgtggaga 480  
aggagggctg ccccggtgtgc atcacgtcga acaccaccat ctgtgccggc tactgcccc 540  
ccatgacctg cgtgctgcag ggggtcctgc cggccctgcc tcaggtggtg tgcaactacc 600

gcgatgtgcg cttcgagtcc atccggctcc ctggctgccc gcgcggcgtg aaccccggtg 660  
tctcctacgc cgtggctctc agctgtcaat gtgcactctg ccgccgcagc accactgact 720  
gcggggggtcc caaggaccac cccttgacct gtgatgacct ccgcttcacg gcctcctctt 780  
cctcaaaggc cctcccccag agccttccaa gtccatcccc actcccgggg ccctcggaca 840  
ccccgatcct ccacacaataa a 861

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<211> 861

<212> DNA

<213> human

<220>

<223> beta-hCG beta-6 cDNA-Sequenz

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actgagtctc agaggtcact tcaccgtggg ctccgcctca tccttggcgc tagaccactg 180

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aggggagagg actggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
tctcgccccc cgaagggtta gtgtcgagct cactccagca tcctacaacc tcctgggtggc 300
cttgccgccc ccacaacccc gaggtatgaa gccagggtaca ccaggcaggg gacgcaccaa 360
ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
catccaagga gccacttcgg ccacgggtgcc gcccacatcaa tgccaccctg gctgtggaga 480
aggagggctg ccccggtgtgc atcacctgca acaccacat ctgtgccggc tactgcccc 540
ccatgacccg cgtgctgcag ggggtcctgc cgccctgcc tcaggtggtg tgcaactacc 600

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gcgatgtgcg cttcgagtcc atccggctcc ctggctgccc gcgcggcgtg aaccccgagg 660
tctcctacgc cgtggctctc agctgtcaat gtgactctg ccgccgcagc accactgact 720
gcggggggtcc caaggaccac cccttgacct gtgatgacct ccgcttccag gcctcctctt 780
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ccccgatcct ccacaataa a 861

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<210> 7
<211> 861
<212> DNA
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<223> e-beta-hCG ("endo" beta-6e) cDNA-Sequenz
<400> 7

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actgagtctc agaggtcact tcaccgtggg ctccgcctca tccttgggyc tagaccactg 180
aggggagagg actggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
tctcgccccc cgaagggtta gtgtcsagct cactccagca tcctacaacc tcctgggtggc 300
cttgmcgccc ccacaamccc gaggtatraa gccagggtaca ccaggcaggg gacgcaccaa 360
ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
catccargga gmyrcttcgg ccacgggtgcc gcccacatcaa tgccaccctg gctgtggaga 480
aggagggctg ccccggtgtgc atcacctgca acaccacat ctgtgccggc tactgcccc 540
ccatgacccg cgtgctgcag ggggtcctgc cgccctgcc tcaggtggtg tgcaactacc 600

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gcgatgtgcg cttcgagtcc atccggctcc ctggctgccc gcgcggcgtg aaccccgagg 660
tctcctacgc cgtggctctc agctgtcaat gtgactctg ccgccgcagc accactgact 720
gcggggggtcc caaggaccac cccttgacct gtgatgacct ccgcttccag gcctcctctt 780
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<210> 8
<211> 165
<212> PRT
<213> human
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<223> t-beta-hCG beta-5,beta-8,beta-3 (prehormone)
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-20 -15 -10 -5

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Gly Thr Trp Ala Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile
-1 1 5 10

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Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr  
 15 20 25  
 Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val  
 30 35 40  
 Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg  
 45 50 55 60  
 Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val  
 65 70 75  
 Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu  
 80 85 90  
 Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu  
 95 100 105  
 Thr Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala Pro  
 110 115 120  
 Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr  
 125 130 135 140  
 Pro Ile Leu Pro Gln  
 145

<210> 9  
 <211> 165  
 <212> PRT  
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 <223> beta-hCG beta-7 (prehormone)  
 <400> 9

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 Gly Thr Trp Ala Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile  
 -1 1 5 10  
 Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr  
 15 20 25  
 Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val  
 30 35 40  
 Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg  
 45 50 55 60  
 Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val

	65		70		75										
Asn	Pro	Val	Val	Ser	Tyr	Ala	Val	Ala	Leu	Ser	Cys	Gln	Cys	Ala	Leu
		80						85				90			
Cys	Arg	Arg	Ser	Thr	Thr	Asp	Cys	Gly	Gly	Pro	Lys	Asp	His	Pro	Leu
	95						100					105			
Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Ala	Ser	Ser	Ser	Ser	Lys	Ala	Pro
	110					115					120				
Pro	Pro	Ser	Leu	Pro	Ser	Pro	Ser	Arg	Leu	Pro	Gly	Pro	Ser	Asp	Thr
125					130					135					140
Pro	Ile	Leu	Pro	Gln											
		145													
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<213>	human														
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<400>	10														
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-20					-15					-10					-5
Gly	Thr	Trp	Ala	Ser	Arg	Glu	Met	Leu	Arg	Pro	Arg	Cys	Arg	Pro	Ile
		-1	1					5					10		
Asn	Ala	Thr	Leu	Ala	Val	Glu	Lys	Glu	Gly	Cys	Pro	Val	Cys	Ile	Thr
	15						20					25			
Val	Asn	Thr	Thr	Ile	Cys	Ala	Gly	Tyr	Cys	Pro	Thr	Met	Met	Arg	Val
30						35					40				
Gly	Val	Leu	Gln	Leu	Pro	Ala	Leu	Pro	Gln	Val	Val	Cys	Asn	Tyr	Arg
45					50					55					60
Asp	Val	Arg	Phe	Glu	Ser	Ile	Arg	Leu	Pro	Gly	Cys	Pro	Arg	Gly	Val
			65						70					75	
Asn	Pro	Val	Val	Ser	Tyr	Ala	Val	Ala	Leu	Ser	Cys	Gln	Cys	Ala	Leu
		80						85					90		
Cys	Arg	Arg	Ser	Thr	Thr	Asp	Cys	Gly	Gly	Pro	Lys	Asp	His	Pro	Leu
	95						100					105			
Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Ala	Ser	Ser	Ser	Ser	Lys	Ala	Pro
	110					115					120				
Pro	Pro	Ser	Leu	Pro	Ser	Pro	Ser	Arg	Leu	Pro	Gly	Pro	Ser	Asp	Thr
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Pro Ile Leu Pro Gln  
145

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<400> 11

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-1 +1 5 10

Asn Ala Ile Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr  
15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val  
30 35 40

Leu Gln Ala Val Leu Pro Pro Leu Pro Gln Val Val Cys Thr Tyr Arg  
45 50 55 60

Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val  
65 70 75

Asp Pro Val Val Ser Phe Pro Val Ala Leu Ser Cys Arg Cys Ala Pro  
80 85 90

Cys Arg Arg Ser Thr Ser Asp Cys Gly Gly Pro Lys Asp His Pro Leu  
95 100 105

Thr Cys Asp His Pro Glu Leu Ser Gly Leu Leu Phe Leu  
110 115

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<212> PRT  
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<223> Peptide P1 (e-beta-hCG)  
<400> 12

Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser

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<210> 13  
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<223> Peptide K1 (t-beta-hCG)  
<400> 13

Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser  
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<210> 14  
<211> 11  
<212> PRT  
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<223> Peptide P2 (e-beta-hCG)  
<400> 14

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<210> 15  
<211> 11  
<212> PRT  
<213> artificial  
<220>  
<223> Peptide K2 (t-beta-hCG)  
<400> 15

Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro  
1 5 10 11